

ABSTRACT OF THE DISCLOSURE

A portion of an outer face 41a installed with a second electric motor 18b is recessed more than a portion of projecting a switch shaft 2a. By the constitution, an outer diameter D_{18} of the shifting electric motor 18b is increased while ensuring a rigidity of a switch shaft 2a by restraining an amount of projecting the switch shaft 2a. Further, swift and firm gear change operation is made to be able to carry out by increasing an output of the shifting electric motor 18b.